

#2

OIFE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/921,180

DATE: 08/09/2001

TIME: 14:39:24

Input Set : A:\00-57.SEQ.txt

Output Set: N:\CRF3\08092001\I921180.raw

4 <110> APPLICANT: Holloway, James L.

6 <120> TITLE OF INVENTION: Zcys9: A member of the cystatin
7 superfamily

9 <130> FILE REFERENCE: 00-57

C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/921,180

C--> 11 <141> CURRENT FILING DATE: 2001-08-02

11 <160> NUMBER OF SEQ ID NOS: 4

13 <170> SOFTWARE: FastSEQ for Windows Version 3.0

15 <210> SEQ ID NO: 1

16 <211> LENGTH: 396

17 <212> TYPE: DNA

18 <213> ORGANISM: Homo sapiens

20 <220> FEATURE:

21 <221> NAME/KEY: CDS

22 <222> LOCATION: (1)...(396)

24 <400> SEQUENCE: 1

ENTERED

```

25 atg ggc agg ctt agc aac tgc ttc tgc tct tca gga act ggc tca cca      48
26 Met Gly Arg Leu Ser Asn Cys Phe Cys Ser Ser Gly Thr Gly Ser Pro
27 1 5 10 15
29 gag gtc tca gag att tct ttt tcc ctg gtg agc ctt aca tgc act ata      96
30 Glu Val Ser Glu Ile Ser Phe Ser Leu Val Ser Leu Thr Cys Thr Ile
31 20 25 30
33 att cgt aga cat cag tat ttt gtg gca tca atg gag ttt gct gtg gct      144
34 Ile Arg Arg His Gln Tyr Phe Val Ala Ser Met Glu Phe Ala Val Ala
35 35 40 45
37 cag ttc aat gag gac aat atg gaa gag tac acg cac agg cct att tat      192
38 Gln Phe Asn Glu Asp Asn Met Glu Glu Tyr Thr His Arg Pro Ile Tyr
39 50 55 60
41 atg aca tgc aca tgg cag cct ttt atc cac ttt cct att tgt ttc tat      240
42 Met Thr Cys Thr Trp Gln Pro Phe Ile His Phe Pro Ile Cys Phe Tyr
43 65 70 75 80
45 ttg gag atg ggc ctc aca att tgt aaa aaa tat gat gaa gac att gac      288
46 Leu Glu Met Gly Leu Thr Ile Cys Lys Lys Tyr Asp Glu Asp Ile Asp
47 85 90 95
49 aat tgc cca ttg caa gaa ggc tca gca gag aaa aag gta tac tgc aca      336
50 Asn Cys Pro Leu Gln Glu Gly Ser Ala Glu Lys Lys Val Tyr Cys Thr
51 100 105 110
53 ttt gtc atg gat gcc cga cct tgg ttt tcc cag ttc aac ctc cta aac      384
54 Phe Val Met Asp Ala Arg Pro Trp Phe Ser Gln Phe Asn Leu Leu Asn
55 115 120 125
57 atc acc tgt aat
58 Ile Thr Cys Asn
59 130
61 <210> SEQ ID NO: 2
62 <211> LENGTH: 132
63 <212> TYPE: PRT
64 <213> ORGANISM: Homo sapiens

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66 <400> SEQUENCE: 2

```

67 Met Gly Arg Leu Ser Asn Cys Phe Cys Ser Ser Gly Thr Gly Ser Pro
68   1           5           10           15
69 Glu Val Ser Glu Ile Ser Phe Ser Leu Val Ser Leu Thr Cys Thr Ile
70           20           25           30
71 Ile Arg Arg His Gln Tyr Phe Val Ala Ser Met Glu Phe Ala Val Ala
72           35           40           45
73 Gln Phe Asn Glu Asp Asn Met Glu Glu Tyr Thr His Arg Pro Ile Tyr
74           50           55           60
75 Met Thr Cys Thr Trp Gln Pro Phe Ile His Phe Pro Ile Cys Phe Tyr
76           65           70           75           80
77 Leu Glu Met Gly Leu Thr Ile Cys Lys Lys Tyr Asp Glu Asp Ile Asp
78           85           90           95
79 Asn Cys Pro Leu Gln Glu Gly Ser Ala Glu Lys Lys Val Tyr Cys Thr
80           100          105          110
81 Phe Val Met Asp Ala Arg Pro Trp Phe Ser Gln Phe Asn Leu Leu Asn
82           115          120          125
83 Ile Thr Cys Asn
84           130

```

86 <210> SEQ ID NO: 3

87 <211> LENGTH: 396

88 <212> TYPE: DNA

89 <213> ORGANISM: Artificial Sequence

91 <220> FEATURE:

92 <223> OTHER INFORMATION: This degenerate nucleotide sequence encodes the amino acid sequence of SEQ ID NO:2.

95 <221> NAME/KEY: misc_feature

96 <222> LOCATION: (1)...(396) ✓

97 <223> OTHER INFORMATION: n = A,T,C or G

99 <400> SEQUENCE: 3

```

W--> 100 atggggnmgny tnwsnaaytg ytttygywsn wsnggnacng gnwsnccnga rgtwnsngar      60
W--> 101 athwsnttyw snytngtnws nytnacntgy acnathathm gnmgncaayca rtayttygtn      120
W--> 102 gcnwsnatgg arttygcngt ngncartty aaygargaya ayatggarga rtayacncay      180
W--> 103 mgncnatht ayatgacntg yacntggcar ccnttyathc ayttyccnat htgyttytay      240
W--> 104 ytngaratgg gnytnacnat htgyaaraar taygaygarg ayathgayaa ytgycnytn      300
W--> 105 cargarggnw sngcngaraa raargtntay tgyacnttyg tnatggaygc nmgnccntgg      360
W--> 106 ttywsncart tyaaaytnt naayathacn tgyaay      396

```

108 <210> SEQ ID NO: 4

109 <211> LENGTH: 16

110 <212> TYPE: PRT

111 <213> ORGANISM: Artificial Sequence ✓

113 <220> FEATURE:

114 <223> OTHER INFORMATION: Peptide linker. ✓

116 <400> SEQUENCE: 4

```

117 Gly Gly Ser Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
118   1           5           10           15

```

VERIFICATION SUMMARY

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Input Set : A:\00-57.SEQ.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3